Name Date

Test REVIEW

Chapter

1

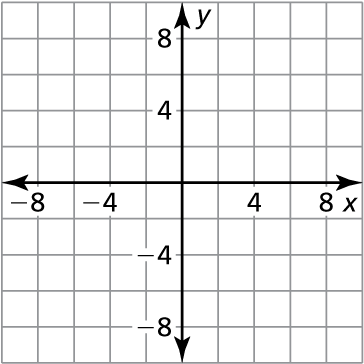
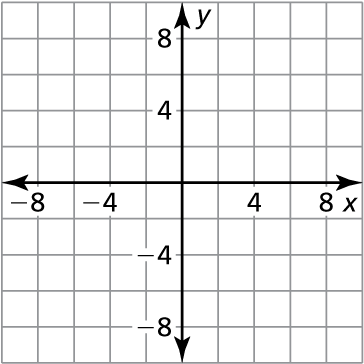
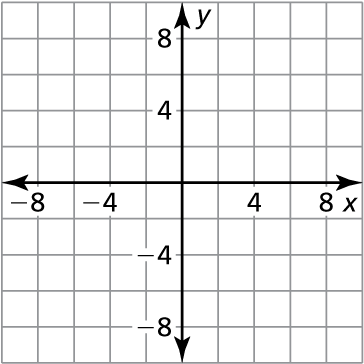
Solve the system. Check your solution, if possible.

1.  2. 

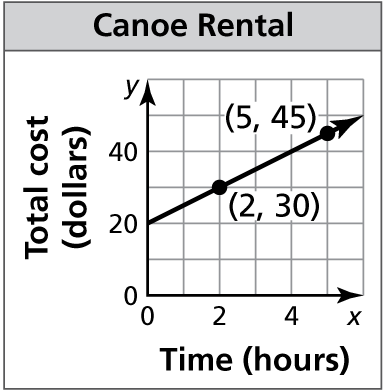
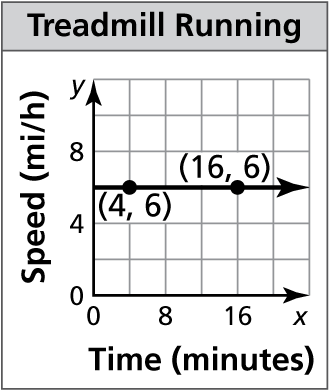
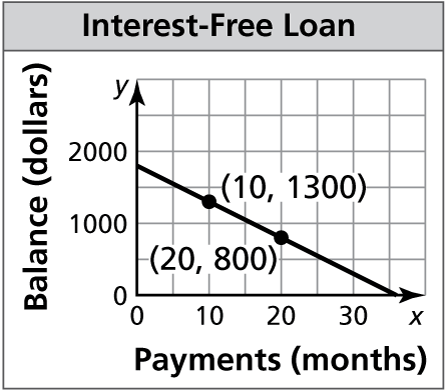
3.  4. 

Graph the function and its parent function. Then describe the transformation.

5.  6.  7. 



Write an equation of the line and interpret the slope and *y*-intercept.

 8. 9. **10.**

3.

11. The fee that the Oxford Newspaper charges to advertise in their paper plus a fee based on the number of lines in the advertisement is represented by y=3x+15 with y being the total cost (in dollars) and x being the number of lines. The table shows the total costs for Avon Grove Daily. Which newspaper charges less per line? How many lines must be in an advertisement for the total costs to be the same?

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number of Lines, *x* | 1 | 2 | 3 | 4 | 5 | 6 |
| Total Cost (Dollars), *y* | 7 | 11 | 15 | 19 | 23 | 27 |

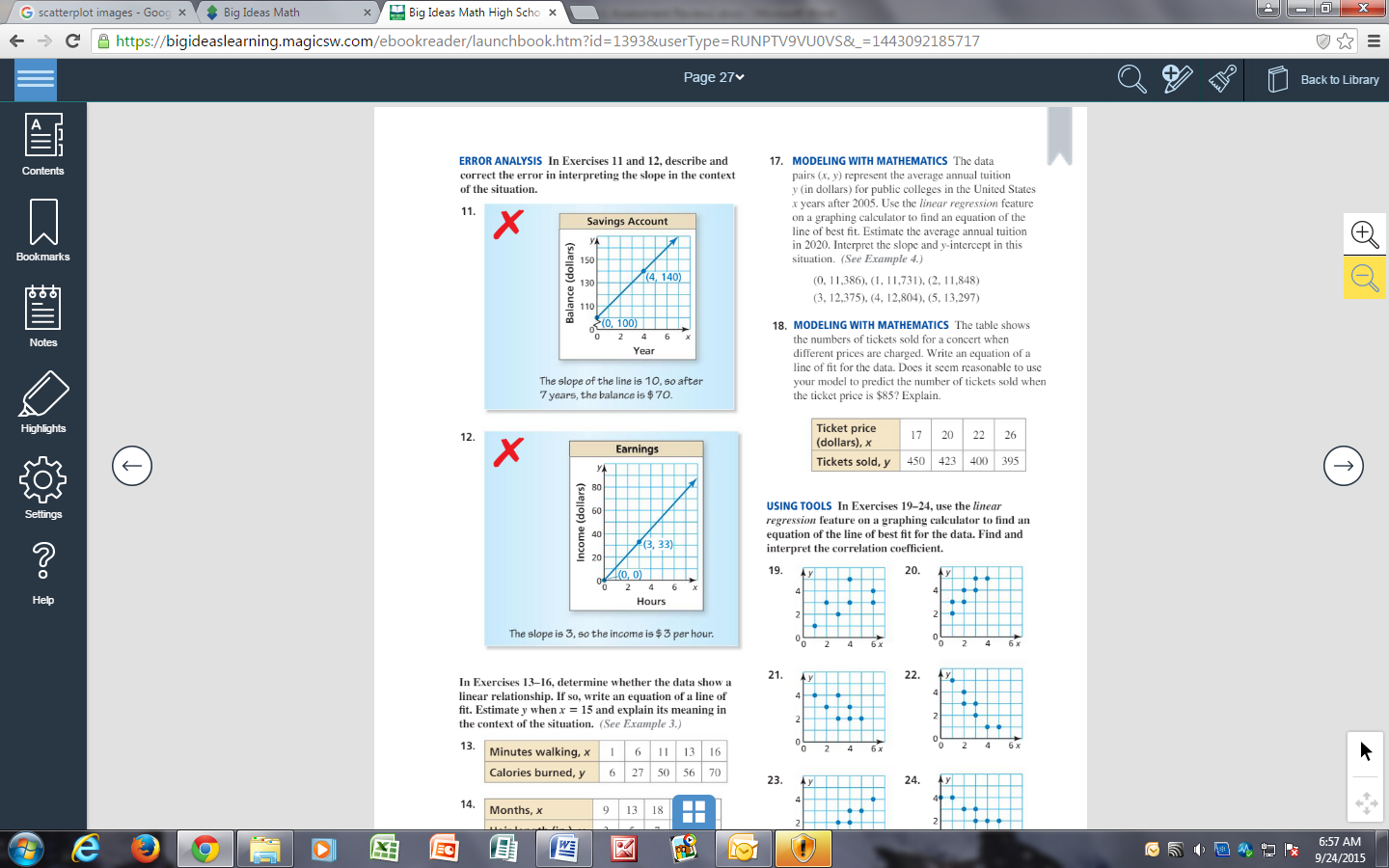
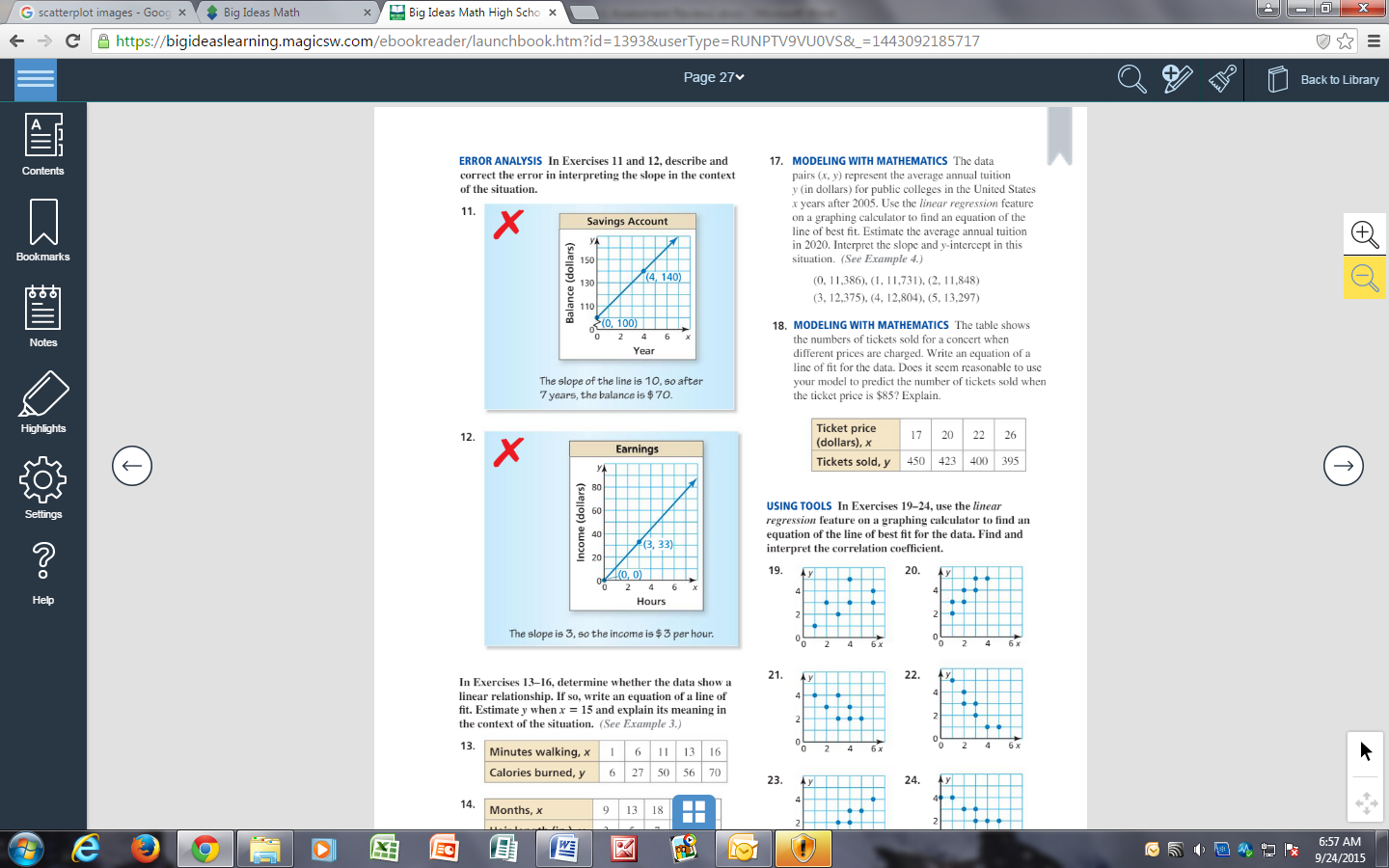
Write a function *g* whose graph represents the indicated transformation of   
the graph *f*.

12.  reflection in the *y*-axis

13.  translation 2 units up

14. Let the graph of *g* be a vertical stretch by a factor of 3, followed by a translation 2 units up of the graph of  Write a rule for *g*.

**Use the *linear regression* feature on a graphing calculator to find an equation of the line of best fit for the data. Find and interpret the correlation coefficient.**

15. 16.